Education

TABLE OF CONTENTS

Abnormal vs. Normal Psychology as a Basis for the Elementary Course. KENNETH SELTSAM 152–155
Additional Data on the Reliability and Validity of Photographic Eye-movement Records. ALVIN C. EURICH . . . 380–384
Analysis of a Complex of Statistical Variables into Principal Components. HAROLD HOTELLING 417–441, 498–520
Analysis of the Curves of Learning and Forgetting Code Material, An. HOWARD EASLEY 634–640
Argument for Centile Ranks, An. DAVID C. ROGERS . . . 107–117
Attempt to Study the Effect of Scientific Training upon Prejudice and Illogicality of Thought, An. JAMES HUNTLEY SINCLAIR and RUTH SHERMAN TOLMAN 362–370
Bogey of the "Personal Equation" in Ratings, The—Rejoinder. HERBERT S. CONRAD 70
Book Reviews 72–78, 156–160, 238–240, 310–318, 396–400, 478–480, 555–556, 708–712
Chance Element in Matching Tests, The. JOSEPH ZUBIN . 673–680
Coefficient of Rank: A Technique for Evaluating Pupil's Ability, The. DONCASTER G. HUMM and KATHRYN A. HUMM 321–348
Collecting Interests of Town Children and Country Children, The. PAUL A. WITTY and HARVEY C. LEHMAN 170–184
Combining Zero-order Correlation Coefficients. JOHN W. DICKEY 123–128
Comparable Tests and Reliability. JACK W. DUNLAP . . . 442–453
Comparative Value for Junior High School Use of Five Group Mental Tests, The. AUSTIN H. TURNEY and MARY FEE. 371–379
Correlations between Certain Measurements of Personality Traits and of Memorizing. JOHN A. McGEOCH and PAUL L. WHITELY 16–20
Difficulty of a Multiple Choice Test Item, The. PAUL HORST 229–232
Distribution of Scores Based on Correct Guessing for True-false Tests of Various Lengths. WILLIAM C. F. KRUEGER. 185–188
Effect of Directions Preceding True-false and Indeterminate Statement Examinations upon Distributions of Test Scores, The. C. C. WEIDEMANN and LYNDALL FISHER NEWENS . 97–106
Effect of the Interval between Test and Retest on the Constancy of the IQ, The. ROBERT L. THORNDIKE 543–549
Essay *versus* the Objective Examination as Measures of the Achievement of Bi-lingual Children, The. FLOYD F. CALDWELL and MARY DAVIS MOWRY 695–702

Evaluation of Certain Aspects of a Program of Character Education, An. D. D. Feder and L. W. Miller. . . . 385–391
Experiment in Individual Training of Pitch-deficient Children, An. Manuel Wolner and W. H. Pyle 602–608
Factor Theory and Its Troubles, The.—II. Garbling the Evidence. C. Spearman. 521–524
Factor Theory and Its Troubles, The.—III. Misrepresentation of the Theory. C. Spearman. 591–601
Further Note on the Significance of a Difference between the Means of Matched Groups, A. E. F. Lindquist 66–69
Graphical Determination of Probable Error in Validation of Test Items. David F. Votaw 681–685
Group Test of Problem Behavior Tendencies in Junior High School Boys, A. Graham C. Loofbourow and Noel Keys. 641–652
Heinis Personal Constant as a Substitute for the IQ, The. Psyche Cattell. 221–228
Improving and Evaluating the Efficiency of College Instruction. C. H. Smeltzer. 283–302
In Disagreement with E. A. Lincoln's Article "The Unreliability of Reliability Coefficients." Luton Ackerson . 233–235
Individual *vs.* Group Instruction in Grammatical Usage. Paul C. Warner and Walter S. Guiler 140–151
Influence of Increase and Decrease of the Amount of Reward upon the Rate of Learning, The. Edward L. Thorndike and George Forlano 401–411
Influence of Irrelevant Rewards, The. Edward L. Thorndike. 1–15
Influence of Manual Tracing on the Learning of Simple Words in the Case of Subnormal Boys, The. Samuel A. Kirk. 525–535
Influence of Month of Birth on Intelligence Quotients, The. Rudolf Pintner and George Forlano 561–584
Influence of Reading Ability on Intelligence Measures, The. Donald D. Durrell. 412–416
Influence upon Achievement of a Knowledge of Progress, The. C. C. Ross 609–619
Meaning of an Average, The. Ward H. Taylor 703–707
Measurement of the Relative Interest Value of Representative Items Taught in Elementary Psychology, The. G. W. Hartmann 266–282
Method for Transforming any Unimodal Frequency Distribution into a Normal Distribution, A. Paul Horst. . . 129–139
New Proof and Corrected Formulae for the Standard Error of a Mean and of a Standard Deviation, A. Charles C. Peters and W. R. Van Voorhis 620–633
New-type or Objective Tests: A Summary of Recent Investigations. J. Murray Lee and Percival M. Symonds. . 21–38

Note on an Error Made in Investigations of Homogeneous Grouping, A. DAVID SEGEL 63–65
Origin of the Pleasure-pain Theory of Learning, The. HULSEY CASON 475–477
Origin of the Pleasure-pain Theory of Learning. W. H. PYLE. 303–304
Persistent Error in the Nature-nurture Controversy, A. STUART M. STOKE 662–672
Personal Equation in Ratings: II. A Systematic Evaluation, The. HERBERT S. CONRAD. 39–46
Prodecure for Balancing Parallel Groups, A. PHILLIP J. RULON and CHARLOTTE W. CROON. 585–590
Publications Received 79–80, 319–320, 557–560
Relation of Learning to Spelling Ability, The. EDMUND G. WILLIAMSON. 257–265
Relative Effort of Three Orders of Arrangement of Items upon Pupils' Scores in Certain Arithmetic and Spelling Tests, The. VIRGINIA LEE CAPRON 686–694
Relative Values of Objective and Essay Type Examinations in General Psychology. A. R. GILLILAND and L. E. MISBACH 349–361
Reliability and Validity of Photographic Eye-movement Records, The. ALVIN C. EURICH 118–122
Reliability Coefficients Are Still Unreliable. EDWARD A. LINCOLN 235–236
Reply to Dr. Lindquist's "Further Note" on Marched Groups. MORDECAI EZEKIEL. 306–309
Sampling Distribution of the Tetrad Equation, The. HENRY E. GARRETT. 536–542
Scoring of Individual Performance on Tests Scaled According to the Theory of Absolute Scaling, The. CLARENCE W. BROWN, PHYLLIS BARTELME and GERTRUDE M. COX . . 653–661
Sex Differences in Intellectual Abilities. J. D. HEILMAN. . 47–62
Sex Differences in Mental Growth and Decline. H. S. CONRAD, H. E. JONES and H. H. HSIAO. 161–169
Simplified Statement of the Two-factor Theory, A. W. LINE and H. B. HEDMAN. 195–220
Some Tonal Determinants of Melodic Memory. OTTO ORTMANN. 454–467
Standard Error of the Spearman-Brown Formula When Used to Estimate the Length of a Test Necessary to Achieve a Given Reliability, The. EDWARD E. CURETON. 305–306
Students' Ratings of Lectures: I. Comparative Rating of General Psychology Lecture Parts. NATHAN ISRAELI . . 236–239
Survey of an Opportunity Room for Gifted Children, A. NORMA V. SCHEIDEMANN 392–395
Teaching Objectives in Educational Psychology. ROBERT A. DAVIS 189–194

Time Interval between Test and Re-test in Its Relation to the Constancy of the Intelligence Quotient, The. RALPH R. BROWN 81–96
Training in Latin and the Quality of Other Academic Work. C. H. WHELDEN, JR 481–497
Translation of Scores into Grades, The. J. D. HEILMAN. . 241–256
Utilization of Data from Simple or Direct Prediction in the Development of Regression Equations for Differential Prediction, The. J. MURRAY LEE and DAVID SEGEL . . 550–554
Variation of IQ's Obtained from Group Tests. W. S. MILLER. 468–474

BOOK REVIEWS

Paul S. Achilles, Editor. *Psychology at Work.* (Laurance F. Shaffer) 74
William H. Burnham. *The Wholesome Personality, A Contribution to Mental Hygiene.* (J. H. Coleman) 75
Edward William Dolch. *The Psychology and Teaching of Reading.* (Melvin Rigg) 312
Edgar A. Doll, Winthrop M. Phelps and Ruth Taylor Melcher. *Mental Deficiency Due to Birth Injuries.* (Florence L. Goodenough) 71
Knight Dunlap. *Habits: Their Making and Unmaking.* (P. Sandiford) 156
F. M. Earle. *Methods of Choosing a Career.* (C. C. Crawford) 399
Edward Safford Jones. *Comprehensive Examinations in American Colleges.* (Glen U. Cleeton) 711
Leoni Kaseff. *Educaçao dos Supernormaes.* (C. A. Baker) . . . 317
Truman Lee Kelley. *Scientific Method: Its Function in Research and in Education.* (C. C. Crawford) 77
W. N. and L. A. Kellogg. *The Ape and the Child.* (P. Sandiford) 708
David Kennedy-Fraser. *Education of the Backward Child.* (Herbert A. Carroll) 158
Leonard V. Koss and Grayson N. KeFauver. *Guidance in Secondary Schools.* (J. H. Coleman) 397
J. H. Landman. *Human Sterilization.* (H. Meltzer) 311
Henry Dexter Learned. *A Modern Introductory French Book.* (William F. Kamman) 158
Frederick H. Lund. *Psychology: An Empirical Study of Behavior.* (Peter Sandiford) 712
Margaret Mead. *The Changing Culture of an Indian Tribe.* (Nathan Miller) 709
Edward J. v. K. Menge. *Jobs for the College Graduate in Science.* (C. C. Crawford) 399

Donald W. Miller. *An Orientation in Educational Psychology.* (Melvin Rigg) 314
Alma M. Norton. *Teaching School Music.* (Otto Ortmann) . . 315
Adolph W. Otterstein and Raymond M. Mosher. *O-M Sight-singing Test.* (Otto Ortmann) 75
E. George Payne. *Readings in Educational Sociology.* (Robert G. Simpson) 316
Lord Eustace Percy, Editor in Chief. *The Year Book of Education.* (Michael Demiashkevich) 396
Laurence A. Petran. *An Experimental Study of Pitch Recognition.* (Otto Ortmann) 315
Jean Piaget. *The Moral Judgment of the Child.* (Max Schoen) 157
G. W. Reagan. *Fundamentals of Teaching.* (C. C. Crawford) . . 400
Walter C. Reckless and Mapheus Smith. *Juvenile Delinquency.* (H. Meltzer) 479
J. M. Reinhardt and G. R. Davies. *Principles and Methods of Sociology.* (Nathan Miller) 710
Francis P. Robinson. *The Rôle of Eye Movements in Reading with an Evaluation of Techniques for Their Improvement.* (Miles A. Tinker) 555
R. R. Rusk. *Research in Education: An Introduction.* (Peter Sandiford) 74
Willi Schohaus. *The Dark Places of Education.* (P. Sandiford) 317
Lawrence Sears. *Responsibility, Its Development through Punishment and Reward.* (J. H. Coleman) 312
Calvin P. Stone, Chester W. Darrow, Carney Landis and Lena L. Heath. *Studies in the Dynamics of Behavior.* (Herbert A. Carroll) 73
L. L. Thurstone. *The Theory of Multiple Factors.* (Warren G. Findley) 478
M. D. Vernon. *The Experimental Study of Reading.* (Melvin Rigg) 312
The Vibrato. (Otto Ortmann) 240
R. F. Young. *Comenius in England.* (I. L. Kandel) 310

INDEX TO AUTHORS

Ackerson, Luton 233
Bartelme, Phyllis 653
Brown, Clarence W. 653
Brown, Ralph R. 81
Caldwell, Floyd F. 695
Capron, Virginia Lee 686
Cason, Hulsey 475
Cattell, Psyche 221
Conrad, Herbert S. 39, 70, 161
Cox, Gertrude M. 653
Croon, Charlotte W. 585
Cureton, Edward E. 305
Davis, Robert A. 189
Dickey, John W. 123
Dunlap, Jack W. 442
Durrell, Donald D. 412
Easley, Howard 634
Eurich, Alvin C. 118, 380
Ezekiel, Mordecai 306
Feder, D. D. 385
Fee, Mary 371
Forlano, George 401, 561
Garrett, Henry E. 536
Gilliland, A. R. 349

GUILER, WALTER S. 140
HARTMANN, G. W. 266
HEDMAN 195
HEILMAN, J. D. 47, 241
HORST, PAUL 129, 229
HOTELLING, HAROLD 417, 498
HSIAO, H. H. 161
HUMM, DONCASTER G. 321
HUMM, KATHRYN A. 321
ISRAELI, NATHAN 236
JONES, H. E. 161
KEYS, NOEL 641
KIRK, SAMUEL A. 525
KRUEGER, WILLIAM C. F. 185
LEE, J. MURRAY 21, 550
LEHMAN, HARVEY C. 170
LINCOLN, EDWARD A. 235
LINDQUIST, E. F. 66
LINE, W. 195
LOOFBOUROW, GRAHAM C. 641
MCGEOCH, JOHN A. 16
MILLER, L. W. 385
MILLER, W. S. 468
MISBACH, L. E. 349
MOWRY, MARY DAVIS 695
NEWENS, LYNDALL FISHER 97
ORTMANN, OTTO 454
PETERS, CHARLES C. 620
PINTNER, RUDOLF 561
PYLE, W. H. 303, 602
ROGERS, DAVID C. 107
ROSS, C. C. 609
RULON, PHILLIP J. 585
SCHEIDEMANN, NORMA V. 392
SEGEL, DAVID 63, 550
SELTSAM, KENNETH 152
SINCLAIR, JAMES HUNTLEY 362
SMELTZER, C. H. 283
SPEARMAN, C. 521, 591
STOKE, STUART M. 662
SYMONDS, PERCIVAL M. 21
TAYLOR, WARD H. 703
THORNDIKE, EDWARD L. 1, 401
THORNDIKE, ROBERT L. 543
TOLMAN, RUTH SHERMAN 362
TURNEY, AUSTIN H. 371
VAN VOORHIS, W. R. 620
VOTAW, DAVID F. 681
WARNER, PAUL C. 140
WEIDEMANN, C. C. 97
WHELDEN, C. H., JR. 481
WHITELY, PAUL L. 16
WILLIAMSON, EDMUND G. 257
WITTY, PAUL A. 170
WOLNER, MANUEL 602
ZUBIN, JOSEPH 673